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Attorney Docket No. 00442/LH

Pursuant to 37 CFR 1.53(b), transmitted herewith for filing is the patent application of

Inventor(s): Yoshiro YODA

Title: "ELECTRONIC CAMERA SYSTEM"

Priority Claim (35 U.S.C. 119) is made, based upon:

Japan No. 11-174088 June 21, 1999

Enclosed herewith are:

- [X] Specification (Description, Claims, Abstract): Pages 1 - 29 ; Number of claims 1 - 15
- [X] Declaration and Power of Attorney [ X ] executed; [ ] unexecuted (supplied for information purposes)
- [X] 5 Sheets of drawings, Figures 1 - 6 [X ] Formal [ ] Informal
- [X] Assignment and "Patents" Recordation Form Cover Sheet (PTO-1595) AND \$40, RECORDATION FEE.
- [X ] Certified copy (ies) of priority document(s) identified above
- [X ] Information Disclosure Statement; [X ] Form PTO-1449
- [ ] Preliminary Amendment
- [ ] Verified Statement(s) Claiming Small Entity Status
- [X ] Receipt Postcard

	Number Filed		Number Extra	Rate		Calculations
Total Claims	<u>15</u>	- 20 =	<u>0</u>	x \$18.00 =		\$ _____
Independent Claims	<u>6</u>	- 3 =	<u>3</u>	x \$78.00 =		\$ <u>234.00</u>
MULTIPLE DEPENDENT CLAIMS				+ \$260.00 =		\$ _____
				BASIC FEE		\$ 690.00
				Total of above Calculations		\$ <u>924.00</u>

To the extent not tendered by check, authorization is given to charge any fees under 37 CFR 1.16 and 1.17 during pendency of the application, or to credit any overpayment, to Deposit Account No. 06-1378. Duplicate copy of this letter is enclosed.

FRISHAUF, HOLTZ, GOODMAN, LANGER & CHICK, P.C.

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U.S. PAT. & T.M. OFFICE  
09/59/875  
06/15/00



TITLE OF THE INVENTION

ELECTRONIC CAMERA SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims benefit of Japanese  
5 Application No. 11-174088 filed in Japan on June 21,  
1999, the contents of which are incorporated by this  
reference.

BACKGROUND OF THE INVENTION

The present invention relates to an electronic  
10 camera system including an electronic camera and  
electronic album apparatus.

In recent years, electronic cameras for recording  
sensed image data not in a silver halide film but in a  
semiconductor memory are becoming popular. Memory  
15 cards used in many types of electronic cameras, each of  
which has a nonvolatile memory encapsulated, are also  
greatly increasing their capacities.

However, such a memory card has a limited  
recording capacity. It is very uneconomical to prepare  
20 a number of memory cards because their unit price per  
image data is very high.

Only the following methods are available to store  
image data for a long time: the image data are  
transferred to and recorded in a dedicated electronic  
25 album apparatus using a hard disk device or  
magneto-optical disk device and having a larger  
recording capacity; a personal computer is used as the

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5                   However, to transfer image files to the dedicated  
electronic album apparatus or apparatus using a  
personal computer and record the files, the electronic  
camera and electronic album apparatus must be connected  
via a cable, or it is necessary to extract only the  
10       recording medium from the electronic camera,  
appropriately insert the extracted recording medium  
into an adapter and then set it in the electronic album  
apparatus, and select only untransmitted image files to  
transfer and record them, resulting in cumbersomeness.

20           For the method of writing the image data on a CD-R  
by digital data service of a general laboratory, since  
it is tedious to take the digital data to the  
laboratory, and the charge for the service is on the  
user, the load on the user is heavy.

The present invention has been made in consideration of the above situation, and has as its

object to provide an electronic camera system capable of automatically transferring an image file recorded in a recording medium of an electronic camera to a recording apparatus and recording the image file without troubling the user.

In order to achieve the above object, according to the first aspect of the present invention, there is provided an electronic camera system comprising:

an electronic camera for converting an image  
10 obtained by sensing into a file and recording the file;  
a first communication device attached to the  
electronic camera to transmit the image file recorded  
in the electronic camera upon receiving base station  
identification information of a master unit in position  
15 registration processing according to movement, the  
first communication device being registered in the  
master unit as a subsidiary unit;

a second communication device for transferring the image file sent in position registration processing of the first communication device, the second communication device serving as the master unit in which the first communication device is registered as the subsidiary unit in advance; and

a recording apparatus connected to the second  
25 communication device to record the image file  
transferred from the second communication device.

According to this system arrangement, in the

communication zone of the master unit, the image file in the camera is automatically transferred to the recording apparatus by extension connection. For this reason, the image files can be transferred to the recording apparatus and arranged in order without tiresome cable connection or recording medium setting. In addition, since transfer is done by extension connection, the user is charged no extra cost.

According to the second aspect of the present invention, there is provided an electronic camera system according to the first aspect, wherein when the image file is recorded in the recording apparatus, the electronic camera automatically erases the transmitted image file.

According to this system arrangement, the recording medium for the electronic camera, which has a limited capacity, can be efficiently used, in addition to the effect of the invention according to the first aspect.

According to the third aspect of the present invention, there is provided an electronic camera system according to the first aspect, wherein the electronic camera transmits only an image unrecorded in the recording apparatus to the recording apparatus through the first communication device and the second communication device.

According to this system arrangement, with minimum

According to the fourth aspect of the present invention, there is provided an electronic camera system according to the first aspect, wherein the second communication device controls a power supply of the recording apparatus in position registration processing for the first communication device.

Additional objects and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the description, or may be learned by practice of the invention. The objects and advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed out hereinafter.

## BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate presently preferred embodiments of the invention, and together with the general description given above and the detailed description of the preferred embodiments given below, serve to explain the

principles of the invention.

FIG. 1 is a view showing the overall arrangement of a system according to an embodiment of the present invention;

5        FIG. 2 is a view showing an example of the outer appearance of an electronic camera and PHS unit according to the embodiment;

10        FIG. 3 is a block diagram showing the circuit arrangements of the electronic camera and PHS unit (subsidiary unit) according to the embodiment;

FIG. 4 is a block diagram showing the circuit arrangements of a private base station (master unit) and electronic album apparatus according to the embodiment;

15        FIG. 5 is a flow chart showing the contents of operation processing by the electronic camera and PHS unit (subsidiary unit) according to the embodiment; and

20        FIG. 6 is a flow chart showing the contents of operation processing by the private base station (master unit) and electronic album apparatus according to the embodiment.

#### DETAILED DESCRIPTION OF THE INVENTION

25        An embodiment in which the present invention is applied to an electronic camera system using a PHS (Personal Handy phone System: 2nd-generation cordless telephone system) will be described below with reference to the accompanying drawing.

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FIG. 1 shows the overall arrangement of the system. Referring to FIG. 1, reference numeral 1 denotes a public line network. A number of public base stations 2 are connected to the public line network 1. A private base station 4 installed in a private house 3 of the user (not shown) of this electronic camera system is also connected to the public line network 1.

The public base stations 2 are base stations (CS) for the public use, which are installed in public telephone boxes, on the rooftops of buildings, underground markets, and station platforms to be connected to many unspecified PHS terminals.

On the other hand, the private base station 4 is a base station (CS) installed in the private house 3, which serves as a master unit to be connected to only a PHS terminal registered by the user as a subsidiary unit. Communication (data transfer) between a plurality of PHS terminals registered as subsidiary units and communication (data transfer) between the private base station 4 and a PHS terminal registered as a subsidiary unit do not incur charge because it is extension connection.

In this embodiment, an electronic album apparatus 5 capable of storing image data sensed by an electronic camera in a large-capacity recording medium and displaying it as needed is connected to the private base station 4.



5           The PHS unit 7 threadably engages with the tripod  
attachment hole in the bottom surface of the electronic  
camera 6 through a screw. The PHS unit 7 is incapable  
of voice communication operation as a general PHS  
terminal. The PHS unit 7 is registered as a subsidiary  
10 unit of the private base station 4 as a master unit in  
advance. When the position of the PHS unit 7 is  
registered in the closest public base station 2 or  
private base station 4 by position registration  
processing automatically executed as the PHS unit 7  
15 moves, it is connected to the public line network 1 by  
radio.

A card slot cover 14 is attached from the right side surface to the front surface of the camera body 10 so as to freely open or close to cover a slot (not shown) for receiving a memory card as a recording



an object is formed on a CCD 32 by an optical lens system 31 in the recording mode. The output from the CCD 32 is digitized by an A/D converter 33 in units of pixels and sent to a buffer memory 34.

5           The buffer memory 34 stores a plurality of frames of image data in the bitmap format. Individual image data stored in the buffer memory 34 are compressed by an image processing section 35 into a predetermined file format, e.g., JPEG, sent to a memory control  
10       circuit 36, and written in a detachably inserted memory card 37 as the recording medium of the electronic camera 6.

          At this time, image data with a much smaller number of pixels is also read out from the buffer  
15       memory 34 to a display section 39. On the basis of the image data, the display section 39 drives the TFT-LCD panel as an electronic viewfinder provided on the rear surface of the camera body 10, so the content sensed by the CCD 32 is displayed in real time.

20           In the reproduction mode, an image data file recorded on the memory card 37 is selectively read out by the memory control circuit 36, expanded by the image processing section 35 in accordance with a procedure reverse to that for compression processing and  
25       bitmapped, and then, stored in the buffer memory 34.

          The image data stored in the buffer memory 34 is read out to the display section 39. On the basis of

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Operations of the CCD 32, A/D converter 33, buffer  
5 memory 34, image processing section 35, memory control  
circuit 36, and display section 39 are systematically  
controlled by a control section 38.

The key input section 40 including the release switch 11 and various mode switches 13 directly sends operation signals for these switches to the control section 38.

The interface section 41 exchanges data between the control section 38 and PHS unit 7.

The PHS unit 7 has an interface (I/F) section 51 for data communication with the electronic camera 6, a control section 52 for controlling the operation of the entire PHS unit 7, the power switch 22, a data buffer 53, a communication control section 54 for

transmitting/receiving a radio wave in the 1.9-GHz band  
as a PHS terminal, and an antenna 55 connected to the  
communication control section 54. Data sent from  
the interface section 41 of the electronic camera 6 is  
5 sent to the control section 52 through the interface  
section 51.

When the PHS unit 7 is powered on by operating the  
power switch 22, the control section 52 executes  
position registration processing for the closest base  
10 station CS using the communication control section 54  
and antenna 55 in accordance with movement. Especially,  
when the position is registered for the private base  
station 4, the electronic camera 6 is activated to read  
out image data recorded on the memory card 37.

15 When the image data are sent from the electronic  
camera 6, they are held in the data buffer 53 and then  
sequentially transmitted from the antenna 55 to the  
private base station 4 by the communication control  
section 54.

20 The circuit arrangements of the private base  
station 4 and electronic camera 6 will be described  
next with reference to FIG. 4.

The private base station 4 comprises an NCU  
(Network Control Unit) 61 connected to the public line  
25 network 1, a communication control section 62 for  
controlling communication including voice communication,  
a handset 63 having a receiver and transmitter, a

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In the electronic album apparatus 5, a control section 71 for controlling the entire operation is

connected to an interface (I/F) section 72, large-capacity recording section 73, display section 74, memory card receiving section 75, and key input section 76.

5           The interface section 72 exchanges data between the private base station 4 and the control section 71.

          The large-capacity recording section 73 is constructed by a device using a large-capacity rotating medium such as a hard disk device or magneto-optical  
10       disk device to record received image data files.

          The display section 74 is constructed by a color TFT-LCD panel with a backlight, which has a diagonal size of, e.g., about 4 inches, and a driving circuit therefor. The display section 74 displays image data  
15       sent from the interface section 72.

          The memory card receiving section 75 receives a memory card on which, e.g., a file of image data sensed by the electronic camera is recorded and reads out the image data file.

20           The key input section 76 has a power key and cursor keys used to select an image. The key operation signal is directly input to the control section 71.

          The control section 71 reads out an image data file from the memory card inserted into the memory card  
25       receiving section 75 in correspondence with an input from the key input section 76 and records the data in the large-capacity recording section 73. Additionally,

the control section 71 selectively reads out image data recorded in the large-capacity recording section 73 and displays it on the display section 74.

5       The operation of this embodiment will be described next.

FIG. 5 shows the processing contents according to movement on the side of the electronic camera 6 integrated with the PHS unit 7 registered in the private base station 4 as a subsidiary unit. First,  
10       the PHS unit 7 stands by to check whether a change occurs in the closest public base station 2 or private base station 4 every predetermined time on the basis of a base station recognition number (CS-ID) obtained by communication with the base station (step A01).

15       If the base station recognition number changes, and it is determined that the closest base station capable of transmission/reception at the highest level has moved, predetermined position registration processing for that base station is executed (step A02).  
20       After that, it is determined whether the base station is not the public base station 2 but the private base station 4 for which the PHS unit 7 is registered as a subsidiary unit (step A03).

25       If the base station that has newly registered its position is not the private base station 4 but the public base station 2, the flow returns to step A01. If YES in step A03, this means that the PHS unit 7

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enters the zone of the private base station 4 near the private house 3. The PHS unit 7 is immediately connected to the private base station 4 as a master unit to shift to the communication state (step A04).

5 In this case, since the PHS unit 7 is registered in the private base station 4 as a subsidiary unit, the communication is extension connection that does not incur any charge.

FIG. 6 shows the processing contents on the private base station 4 and electronic album apparatus 5 side in the private house 3. First, the private base station 4 stands by to repeatedly determine whether a position registration request from a registered subsidiary unit or a call is received from the public line network 1 (steps B01 and B02).

When a position registration request from the registered subsidiary unit is received, the private base station 4 determines this state in step B01 and executes position registration processing for this subsidiary unit (step B03). After that, it is determined whether the subsidiary unit is the PHS unit 7 attached to the electronic camera 6 (step B04).

If NO in step B04, the flow returns to step B01. If YES in step B04, the electronic album apparatus 5 is immediately forcibly powered on through the interface section 67 (step B05). Simultaneously, the private base station 4 is connected to the PHS unit 7 as the

subsidiary unit to shift to the communication state  
(step B06).

5 In this extension connection state, both of the  
electronic camera 6 and PHS unit 7 side and the private  
base station 4 and electronic album apparatus 5 side  
mutually look up image data files recorded on the  
memory card 37 in the electronic camera 6 and those  
already recorded in the large-capacity recording  
section 73 of the electronic album apparatus 5 (steps  
10 A05 and B07).

To mutually look up the image data files, first,  
the control section 38 of the electronic camera 6 reads  
out the file names of image data recorded on the memory  
card 37 at once, outputs them to the PHS unit 7 through  
15 the interface section 41, and causes the PHS unit 7 to  
transmit the file names to the electronic album  
apparatus 5 side through the private base station 4.

On the side of the electronic album apparatus 5  
which has received the file names through the private  
20 base station 4, the control section 71 compares them  
with the file names of a number of image data recorded  
in the large-capacity recording section 73. Only file  
names that do not coincide are output to the private  
base station 4 through the interface section 72 as the  
25 file names of untransmitted image data and returned to  
the electronic camera 6 through the PHS unit 7.

In the electronic camera 6, the control section 38

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checks whether the file names are returned from the electronic album apparatus 5 to determine whether untransmitted files are present (step A06). Only if YES in step A06, the files of image data corresponding to the returned file names are read out from the memory card 37 and output to the PHS unit 7 through the interface section 41. Then, the PHS unit 7 is made to transmit the image data files to the electronic album apparatus 5 side through the private base station 4 (step A07).

After that, as processing for the transmitted files, after a signal for confirming that the image data files are recorded in the large-capacity recording section 73 is returned from the electronic album apparatus 5 side, the already transmitted image data files on the large-capacity recording section 73 are erased at once (step A08).

After the series of processes of transmitting the image data file are executed, or if it is determined in step A06 that no transmitted files are present, processes in steps A07 and A08 are omitted. Disconnection processing is executed to end the extension connection state between the PHS unit 7 and the private base station 4 and electronic album apparatus 5 (step A09). Thus, the series of processes shown in FIG. 5 are ended, and the flow returns to step A01 again.

On the electronic album apparatus 5 and private base station 4 side, after the processing of mutually looking up the image data files in step B07, the control section 71 outputs the file names of the  
5 untransmitted image data to the private base station 4 through the interface section 72, and checks whether the image data file names are returned to the electronic camera 6 through the PHS unit 7 to determine whether the files of the untransmitted image data are  
10 to be transferred from the private base station 4 side (step B08).

Only if YES in step B08, the image data files transmitted subsequently are recorded in the large-capacity recording section 73 as they are  
15 received. When recording is complete, a signal for confirming recording in the large-capacity recording section 73 is output to the private base station 4 through the interface section 72 and transmitted to the electronic camera 6 side through the PHS unit 7  
20 (step B09).

Then, independently of execution of processing in step B09, the electronic album apparatus 5 is powered off again (step B10). Simultaneously, the control section 66 in the private base station 4 executes  
25 disconnection processing to end the extension connection to the PHS unit 7 (step B11). Thus, the series of processes shown in FIG. 6 are ended, and the

flow returns to step B01 again.

In the operation of the above embodiment, when even only one untransmitted image data file which is not recorded in the large-capacity recording section 73 of the electronic album apparatus 5 is present on the memory card 37 of the electronic camera 6 integrated with the PHS unit 7 which has entered the extension communication zone of the private base station 4, the file is unconditionally transferred via extension connection. However, the remaining capacity of the memory card 37 may also be taken into consideration, and it may be determined whether an untransmitted image data file is present by mutual lookup between the memory card 37 and the large-capacity recording section 73 only when the ratio of the remaining capacity to the total capacity of the memory card 37 has a predetermined value, e.g., 50% or less.

With this arrangement, only when further sensing will cause overflow in the memory card 37 of the electronic camera 6, image transfer by extension connection is executed, and consequently, the frequency of image transfer is reduced, thereby suppressing consumption of battery as the power supply of the PHS unit 7.

In the above embodiment, a PHS is used as a communication means. However, the present invention is not limited to this and can be applied to any other

communication means such as specific low-power communication as far as the communication does not incur any charge.

5       The present invention is not limited to the above-described embodiment, and various changes and modifications can be made without departing from the spirit and scope of the invention.

10       Hence, according to the present invention, in the communication zone of the master unit, image files in the camera are automatically transferred to the recording apparatus by extension connection. For this reason, the image files can be transferred to the recording apparatus and arranged in order without cumbersome cable connection or recording medium setting.  
15       In addition, since transfer is done by extension connection, the user is charged no extra cost.

20       According to the present invention, the recording medium for the electronic camera, which has a limited capacity, can be efficiently used.

20       According to the present invention, with minimum necessary communication, power can be effectively used without any waste.

25       According to the present invention, the recording apparatus can be automatically powered on/off.

25       Additional advantages and modifications will readily occur to those skilled in the art. Therefore, the invention in its broader aspects is not limited to

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the specific details and representative embodiments shown and described herein. Accordingly, various modifications may be made without departing from the spirit or scope of the general inventive concept as defined by the appended claims and their equivalents.

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sensing as an image file;

means for determining whether a base station capable of communication at the highest level is a master unit in which a self device is registered as a subsidiary unit;

means for, when it is determined that the base station is the master unit in which the self device is registered as the subsidiary unit, transmitting a file name of the image file recorded in said recording means to the master unit and receiving a file name of an untransmitted image file from the master unit; and

means for transmitting an image file corresponding to the received file name of the untransmitted image file to the master unit.

9. A camera according to claim 8, further comprising

means for disconnecting communication with the master unit after the image file corresponding to the file name of the untransmitted image file is transmitted to the master unit.

10. An electronic camera system comprising:

an electronic camera; and

a personal handy phone unit attached to said electronic camera,

wherein said electronic camera comprises

image sensing means for sensing a target sensing object,

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a memory card for recording an image of the target sensing object sensed by said image sensing means as an image file, and

5 a control section for transmitting a file name of the image file recorded on said memory card to said personal handy phone unit, searching said memory card for an image file corresponding to a file name of an untransmitted image file, the file name being transmitted from said personal handy phone unit, and  
10 transmitting the image file found by the search to said personal handy phone unit, and

said personal handy phone unit transmits a file name of the image file recorded on said memory card and sent from said control section to a master unit in  
15 which a self device is registered as a subsidiary unit, receives a file name of an untransmitted image file from the master unit, transmits an image file corresponding to the received file name of the untransmitted image file to said control section, and  
20 transmits the image file found by the search transmitted from said control section to the master unit.

11. An electronic camera for storing image sensing data in nonvolatile storage means, comprising:

25 a communication unit having a unique identification code to perform data communication compatible to a handyphone system; and

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connection means for integrally connecting said communication unit to said electronic camera main body,

wherein said communication unit transfers the image sensing data stored in said nonvolatile storage means to a predetermined partner through said communication unit only when direct communication with the predetermined partner is possible.

12. A camera according to claim 11, wherein said communication unit is detachably connected to said electronic camera main body.

13. A camera according to claim 11, wherein the predetermined partner is a base station unit which has a unique identification code and a predetermined storage unit and is capable of data communication compatible to said handyphone system, and which performs data communication with said electronic camera and stores the transferred image sensing data in said predetermined storage unit.

14. An electronic camera system comprising:  
an electronic camera having a unique identification code and capable of transferring image sensing data stored in nonvolatile storage means to a predetermined partner by data communication compatible to a handyphone system, said electronic camera storing the image sensing data in said nonvolatile storage means; and

a base station unit which has a unique

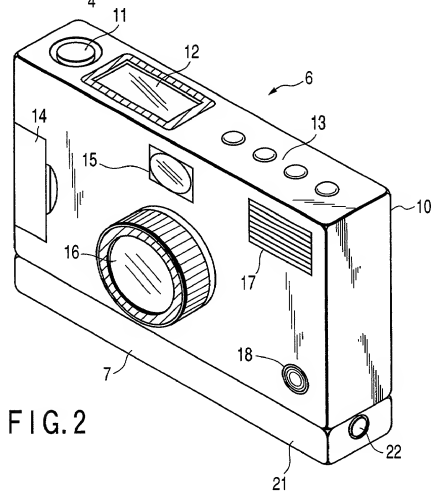
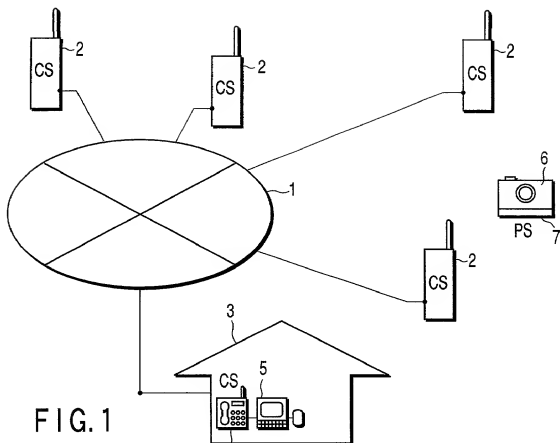
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identification code and a predetermined storage unit  
and is capable of data communication compatible to said  
handyphone system, and which performs data communica-  
tion with said electronic camera and stores the  
5 transferred image sensing data in said predetermined  
storage unit.

15. A system according to claim 14, wherein said  
electronic camera is set as a subsidiary unit having  
said base station unit as a master unit and transfers  
10 the image sensing data only when said master unit and  
said subsidiary unit can directly perform data  
communication.

### ABSTRACT OF THE DISCLOSURE

5 An electronic camera system of this invention includes an electronic camera for converting an image obtained by sensing into a file and recording the file, a PHS unit attached to the electronic camera to transmit the image file recorded in the electronic camera upon obtaining base station identification information of a master unit in position registration processing according to movement, the master unit having registered the PHS unit as a subsidiary unit, a private base station as the master unit, in which the PHS unit is registered as the subsidiary unit in advance, for transferring the image file sent in position registration processing of the PHS unit, and an electronic album apparatus connected to the private base station to record the image file transferred from the private base station.



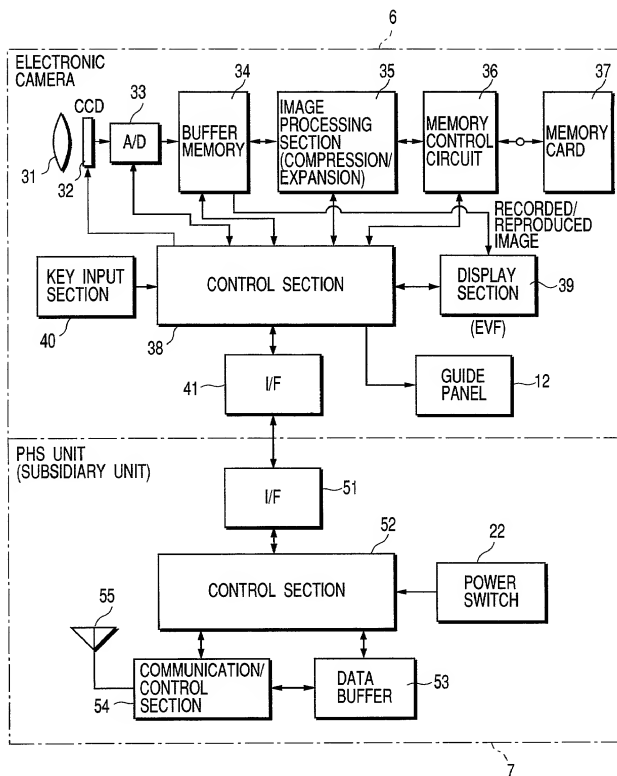


FIG. 3



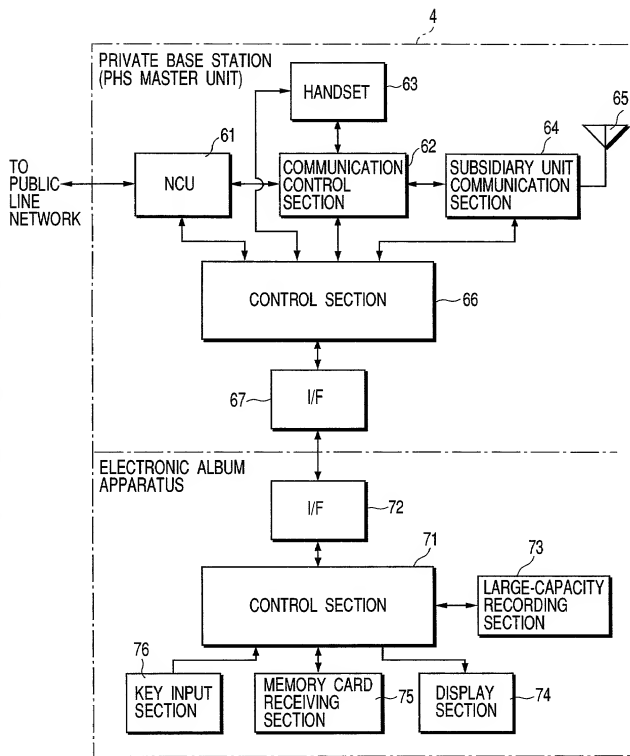


FIG. 4

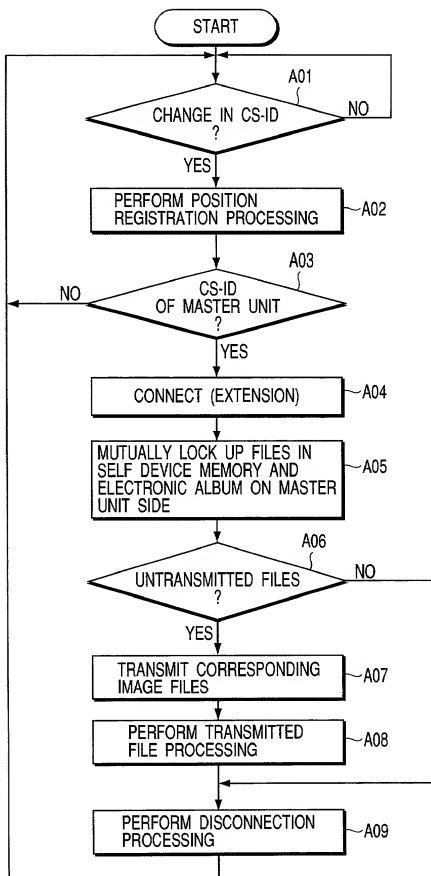
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FIG. 5

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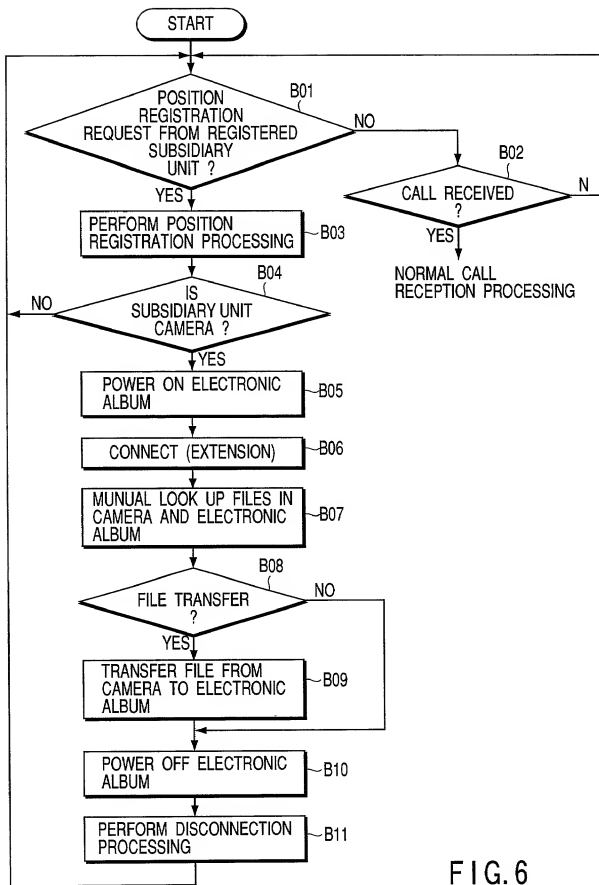


FIG.6

## Declaration Power of Attorney For Patent Application

## 特許出願宣言書及び委任状

## Japanese Language Declaration

## 日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の横に記載され  
た通りです。My residence, post office address and citizenship  
are as stated below next to my name.下記の名称の発明に関して請求範囲に記載され、特許出願し  
ている発明内容について、私が最初かつ唯一の発明者（下記  
の氏名が一つの場合）もしくは最初かつ共同発明者であると  
（下記の名称が複数の場合）信じています。I believe I am the original, first and sole inventor  
(if only one name is listed below) or an original,  
first and joint inventor (if plural names are listed  
below) of the subject matter which is claimed and for  
which a patent is sought on the invention entitled

電子カメラシステム

ELECTRONIC CAMERA SYSTEM

記載発明の明細書（下記の欄で×印がついていない場合は、  
本書に添付）は、The specification of which is attached hereto  
unless the following box is checked:☐ \_\_\_\_\_月 \_\_\_\_\_日に☐ was filed on \_\_\_\_\_  
as United States Application Number or  
PCT International Application Number

提出され米国出願番号または特許協定条約

国際出願番号を \_\_\_\_\_ とし、

\_\_\_\_\_ and was amended on

（該当する場合） \_\_\_\_\_ 月 \_\_\_\_\_ 日に訂正されました。

\_\_\_\_\_ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、  
内容を理解していることをここに表明します。I hereby state that I have reviewed and understand  
the contents of the above identified specification,  
including the claims, as amended by any amendment  
referred to above.私は、連邦規則法典第37編第1条56項に定義されると  
おり、特許資格の有無について重要な情報を開示する義務が  
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which is material to patentability as defined  
in Title 37, Code of Federal Regulations, Section  
1.56

## Japanese Language Declaration

(日本語宣言書)

私は、合衆国法典第35編第119条(a)-(d)項又は第365条(b)に基き下記、米国以外の国の少なくとも一カ国を指定している特許協力条約365(a)項に基き国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。

## Prior Foreign Application(s)

外国での先行出願

11-174088 (Number) (番号)	JAPAN (Country) (国名)

私は、第35編米国法典119条(e)項に基いて下記の米国特許出願規定に記載された権利をここに主張いたします。

(Application No.) (出願番号)	(Filing Date) (出願日)

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(Application No.) (出願番号)	(Filing Date) (出願日)

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I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed:

## Priority Not Claimed

優先権の主張なし

21/06/1999 (Day/Month/Year Filed) (出願年月日)	<input type="checkbox"/>
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I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.) (出願番号)	(Filing Date) (出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) or 365(c) of any PCT international application designating the United States, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT Information application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which become available between the filing date of the prior application and the national or PCT international filing date of application:

(Status: Patented, Pending, Abandoned) (現況: 特許許可済、係属中、放棄済)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## Japanese Language Declaration

(日本語宣言書)

委任状: 私は、下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。  
(弁理士、または代理人の氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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